

INFORMATION REPORT INFORMATION REPORT

CENTRAL INTELLIGENCE AGENCY

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COUNTRY East Germany

REPORT

SUBJECT Radio and Telecommunications
on Wittstock Airfield

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report

on Wittstock airfield which gives information under the following headings:
(1) Airfield Telephone Exchange, (2) SAF Headquarters, and Airfield
Underground Operations Room, (3) Air Traffic Control Building, (4) External
Overland Open Telephone Lines, (5) External Underground Cable, and
(6) Radio/Radar Installations. Seven sketches, referred to as appendixes
in the report, are also included: Sketch A shows the cable and telephone
layout on the airfield; Sketch B shows the layout of the telephone exchange;
Sketch C shows the details of the telephone systems leading out of the
airfield; Sketch D shows the details of an outer marker beacon site;
Sketch E shows the layout of equipment on the outer marker beacon site;
Sketch F shows the routes followed by the underground cables and overhead
telephones which serve the airfield, and Sketch G shows the details of the
radio mast adjoining the TOKEN site, and also the bed of the underground
cable which links the airfield with the Wittstock post office.

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(Note: Washington distribution indicated by "X"; Field distribution by "#".)

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as at mid-Nov 56

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APPENDICES

Attached at Appendix "A" is a sketch plan showing the cable and telephone layout on WITTSTOCK Airfield.

Attached at Appendix "B" is a sketch plan showing the layout of the telephone exchange.

Attached at Appendix "C" are sketches showing details of telephone systems leading out of WITTSTOCK Airfield.

Attached at Appendix "D" is a sketch plan showing details of the outer marker beacon site located approx. $3\frac{1}{2}$ km. EAST of the airfield.

Attached at Appendix "E" is a sketch plan showing the layout of equipment on the outer marker beacon site.

Attached at Appendix "F" is an overlay taken from local 1:25000 maps showing the exact routes followed by the underground cables and overhead telephones supplying WITTSTOCK Airfield.

Attached at Appendix "G" are details of the radio mast adjoining the TOKEN site, together with a plan showing the exact bed of the underground cable linking the airfield with WITTSTOCK postoffice.

1. AIRFIELD TELEPHONE EXCHANGE

The airfield telephone exchange is located [] in an isolated single storied reinforced concrete building measuring approx. 9 metres x 8 metres. This building is entirely above ground, and has a single entrance with a heavy metal door. Each of the 7 small windows let in the walls has a heavy metal shutter on the outside. The interior of the building is divided up into 4 small rooms of varying sizes, all walls, both outer and inner, being of heavy reinforced concrete (see sketch plan at Appendix "B").

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There are 3 cable/telephone systems leading into/out of the exchange:

- a) A single underground cable consisting of 60 pairs of 0.8 mm. connecting this building on the airfield to the main postoffice in WITTSTOCK. Of this total number of lines, either 52 or 54 pairs are in current use (see sketches at Appendices "A" and "F").
- b) A series of 3 external together with several internal overland telephone lines. Of the external systems, 10 pairs lead to MEYENBURG (RETZOW), 9 pairs proceed to BRANDENBURG, and 9 pairs go to RECHLIN (see sketches at "A" and "F").
- c) A ring system of internal cables extends around the entire airfield built up area. This underground cable system is broken up into portions by a total of 6 distributor points. Between these distributor points, the cables are of 2 different capacities, one having 60 pairs of lines, whilst the other has 80 pairs (see plan at Appendix "A").

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The exchange is manned in shifts by a staff of 3 SAF ORs under the direct supervision of an SAF NCO, and it is frequently visited by an SAF officer. No German personnel are allowed into, or permitted to work in the vicinity of this exchange, except when major alterations or difficult repairs are necessary, in which case the workmen are kept under the personal supervision of the SAF officer.

2. SAF HEADQUARTERS AND AIRFIELD UNDERGROUND OPERATIONS ROOM

The SAF Headquarters is located in an extensive elongated T-shaped building [] in addition to a smaller oblong 2 storied building situated opposite [] (See sketch at Appendix "A"). Senior SAF officers are normally to be seen entering the larger T-shaped building.

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Beneath the NORTHERN arm of the main building, [] there is an extensive underground bunker of unknown dimensions. This bunker is normally occupied, and into it are fed numerous cables and telephone lines almost all of which appear to be superficial and of an improvised nature. All repairs and wiring into this building are undertaken by Russian signals personnel and no Germans whatsoever are allowed to work on the cabling.

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There is a total of 16 teleprinters in the main HQ building, all of which have direct links to other Soviet units via the airfield telephone exchange and the main postoffice in WITTSTOCK.

3. AIR TRAFFIC CONTROL BUILDING

The air traffic control tower is located [] above the largest of the 4 hangars. This control tower has a direct underground cable link to the airfield ring system, and in addition there are 2 pairs of wires on a primitive overland system extending across the domestic site as far as the radar site [] (see sketch at Appendix "A").

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4. EXTERNAL OVERLAND OPEN TELEPHONE LINES

The 3 previously mentioned overland telephone systems (see sketches at Appendices "A" and "F") have all been laid by Russian signals personnel. These 3 telephone systems converge SOUTH of the airfield [] and then lead into the telephone exchange.

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All of these external long distance systems consist of normal rough unprepared wooden poles, each of which is surmounted by 2 wooden crossbars. Four pairs of wires are carried on each crossbar, one insulator of each pair being above and the other being secured below the bar to prevent interference by induction. The extra pairs are carried by S-shaped metal hooks on the actual poles themselves (for exact layout of these telephone wires, see sketches at Appendix "C"). The wires are of steel and copper.

A fourth smaller overland system comprising 2 pairs, extends between the Russian Kommandantur [] through SCHWEINRICH as far as FURSTENBERG.

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5. EXTERNAL UNDERGROUND CABLE

The underground cable consisting of 60 pairs, extends between the airfield telephone exchange as far as the main road [] At this point, the cable bends SOUTHwards, proceeding down the entire WESTERN side of the main road as far as WITTSTOCK [] and then terminates in the main postoffice [] (see sketches at Appendix "A" and overlay at Appendix "F").

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The cable bed is 60 cm. below the surface, the cable itself lying on bare earth, and is protected above by a line of normal domestic bricks. The route follows a rough footpath situated on the WESTERN side of the main road (see sketches (b) and (c) of Appendix "G"). The majority of the land bordering this cable bed is rough woodland, and near the immediate approaches to WITTSTOCK, the adjoining houses are all civilian occupied, mostly consisting

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of small-holdings or small detached houses in their own grounds.

At the main postoffice in WITTSTOCK, the terminal of the cable is linked to other existing underground cables, the majority of which have been entirely requisitioned to carry Russian traffic. In this way, direct connection is made from the airfield to the following Soviet exchanges:

FINOW
GROSS DOELLN
NEURUPPIN
NEUBRANDENBURG
PERLEBURG
SCHWERIN
WUNSDORF
WERNEUCHEN
DALLGOW
FURSTENWALDE
DEMMIN
ANKLAM
PEENEMUENDE
PUTNITZ
PARCHIM
GARZ
MIROW, and
WESENBERG.

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WITTSTOCK postoffice is itself the main trunk link in the long distance cable number 225. This cable consists of 119 pairs, and extends between PERLEBURG and RHEINSBERG via WITTSTOCK. This main cable is buried $1\frac{1}{2}$ metres below surface, and 20 pairs of lines are taken from it and fed out into the WITTSTOCK postoffice for local consumption.

All cables used to carry Soviet traffic are regularly checked by Soviet signals engineers every 2 months.

6. RADIO/RADAR INSTALLATIONS

a) TOKEN site

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In the immediate vicinity of the TOKEN site, there is a metal mast approx. 20 metres in height. Near the top of this mast there are either 4 or 5 pairs of vertical dipoles (see sketch (a) of Appendix "G"). This radar/radio site adjoins one of the airfield underground cable distributor points, and is linked into it. In addition, 2 pairs of overland open telephone wires proceed into the air traffic control building.

b) Outer Marker Beacon Site

approx. $3\frac{1}{2}$ km. from the EASTERN end of the runway, there is an extensive combined radio site.

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Four metal masts, each approx. 11 metres in height have been set up in the form of a square spaced approx. 8 metres apart. The 2 most WESTERLY masts have a series of parallel wires stretched between them, approx. at 1 metre from the top. The 2 most EASTERLY masts are each surmounted by 2 pairs of dipoles, each approx. 1 metre in length (see sketch at Appendix "D"). A single wire joins these 2 masts and again links the 2 WESTERLY masts approx. 1 metre below the junction of the series of parallel wires.

aerial

There is no Sense/in the centre of this radio installation, nor is there any form of hutment or shelter similar to those seen on ADCOCK sites. (see sketch at Appendix "E").

A single thick wire extends between the 2 most NORTHERLY masts and a nearby wooden hut which is manned by SAF personnel. From this hut, a single pair of telephone lines feeds into a nearby overland telephone system

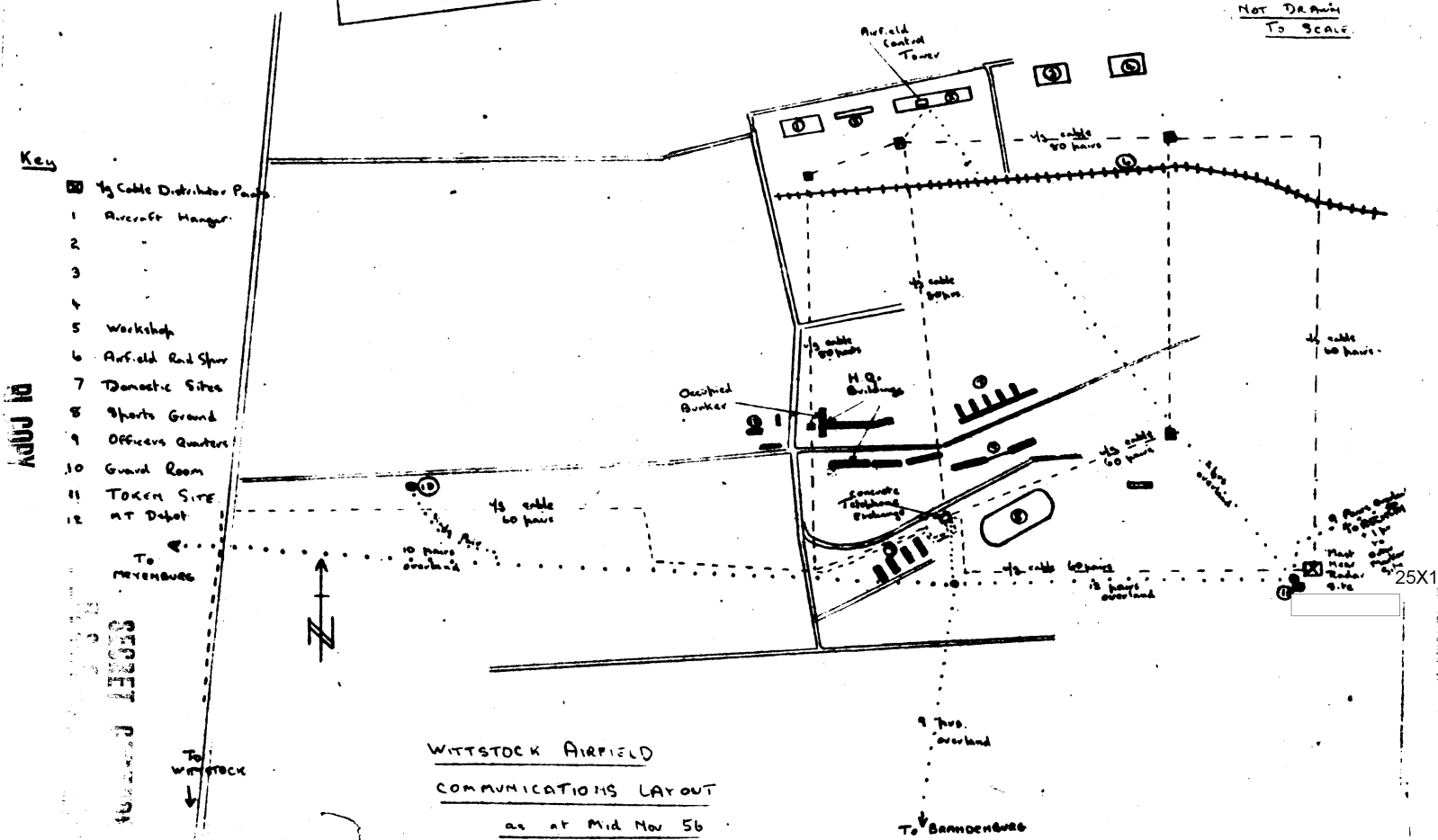
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which extends between the airfield and RECHLIN.

Approx. 30 metres to the SOUTH of this radio site, there were usually 2 x 3-axled radio vans. One vehicle had a normal box bodied chassis with no obvious aerial array, whilst the other had a similar box body but over the entire roof there was a single curved aerial across which there was a series of horizontal dipoles. The exact number of dipoles was not known.

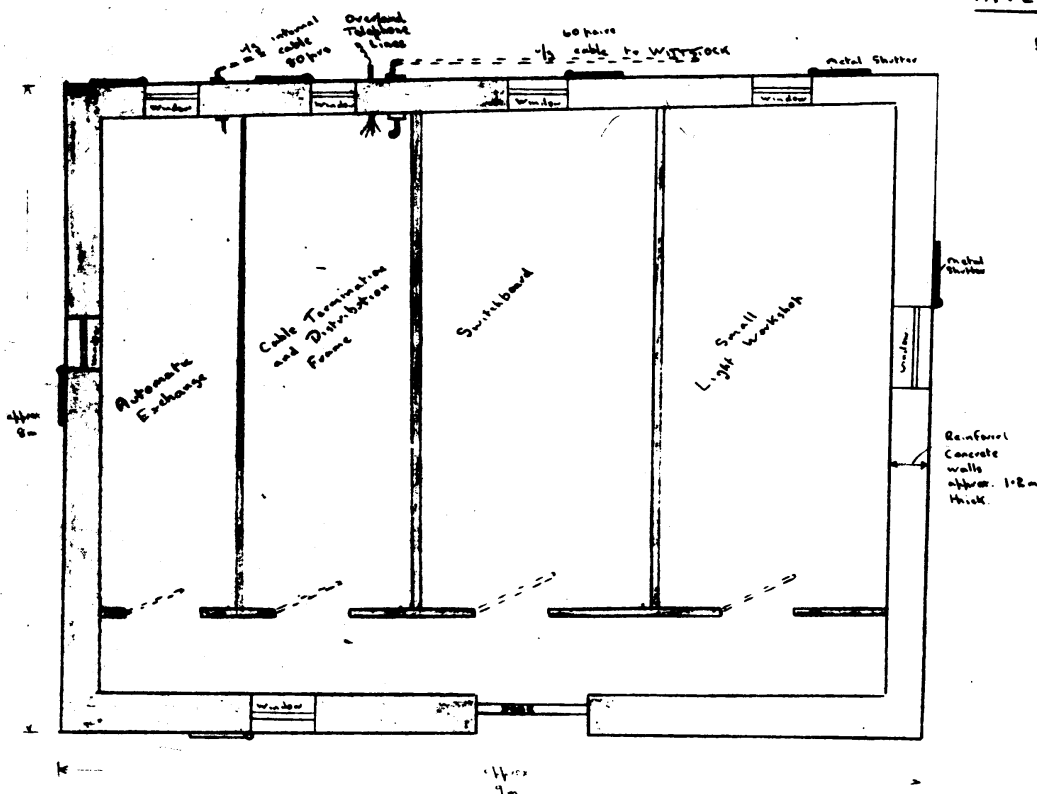
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APPENDIX "B"

NOT DRAWN
TO SCALE



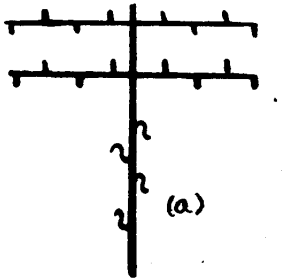
WITTSTOCK AIRFIELD
Layout of Telephone Exchange

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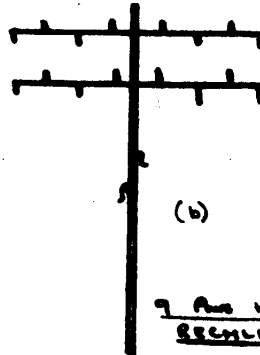
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APPENDIX "C"

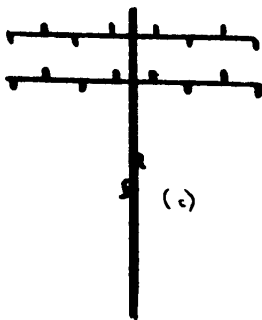
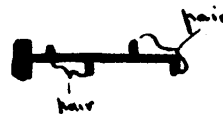
Telephone Systems Leading From
WITTROCK AIRFIELD.



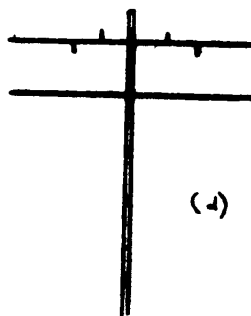
10 Pairs to AERENHAGE



7 Pairs to
RECHLIN



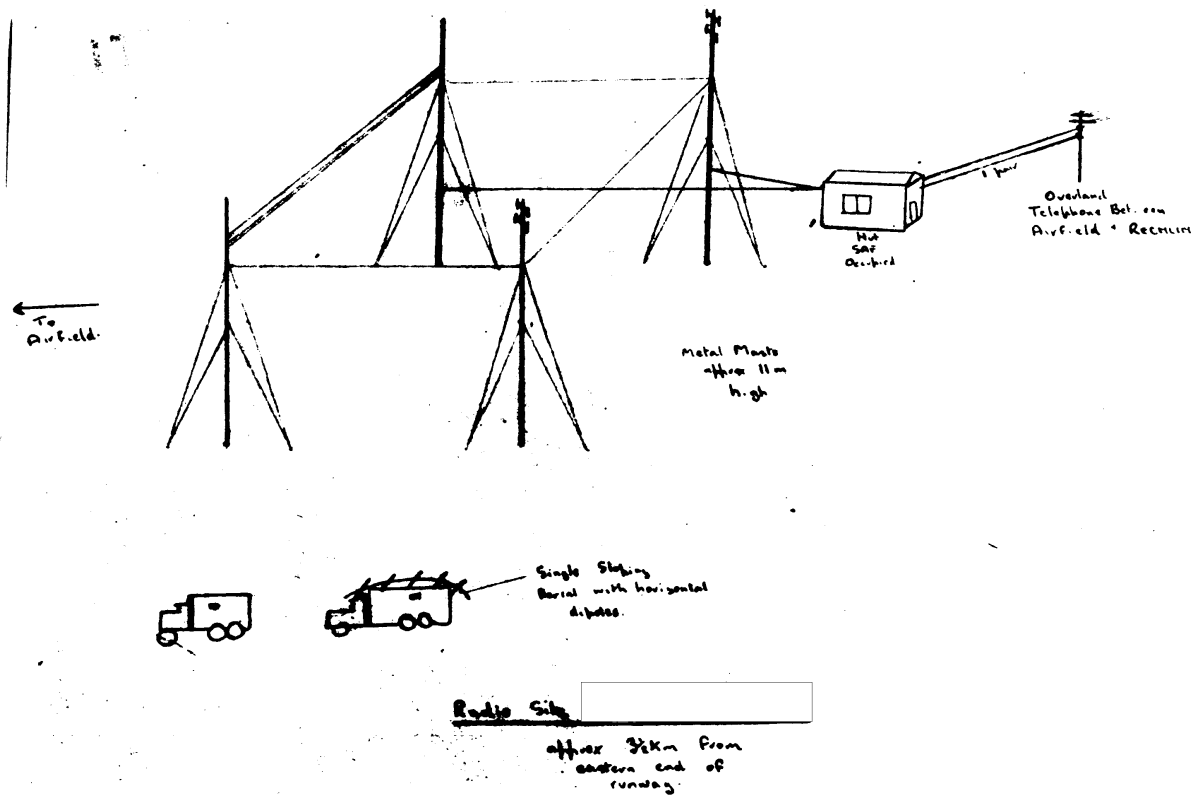
9 Pairs to
BRANDENBURG

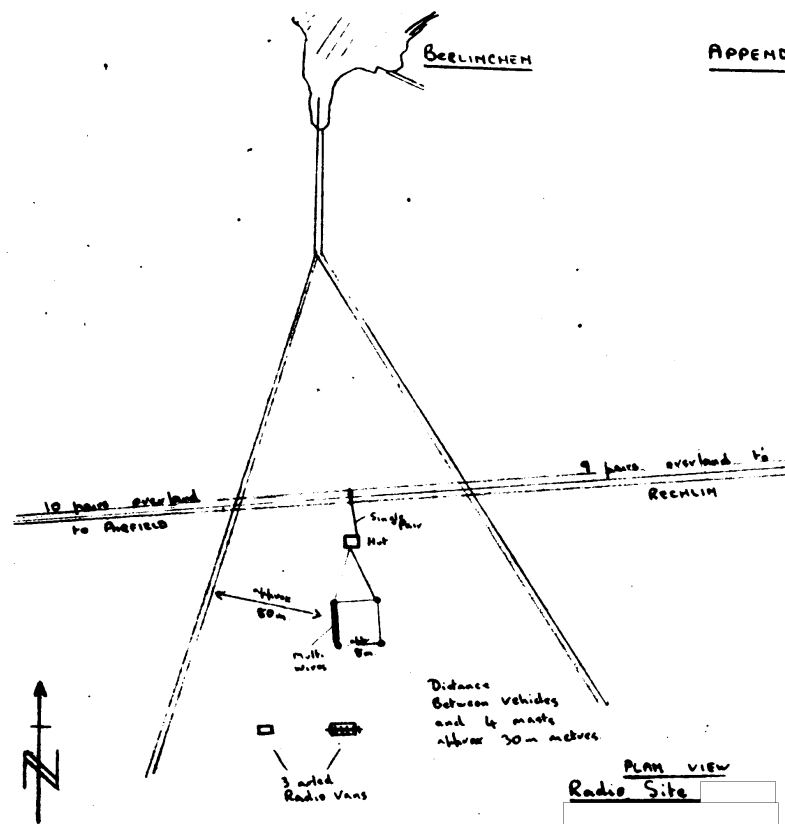


2 Pairs to
SCHWEINICH

All Poles and Crossbars
of Timber.

APPENDIX "D"

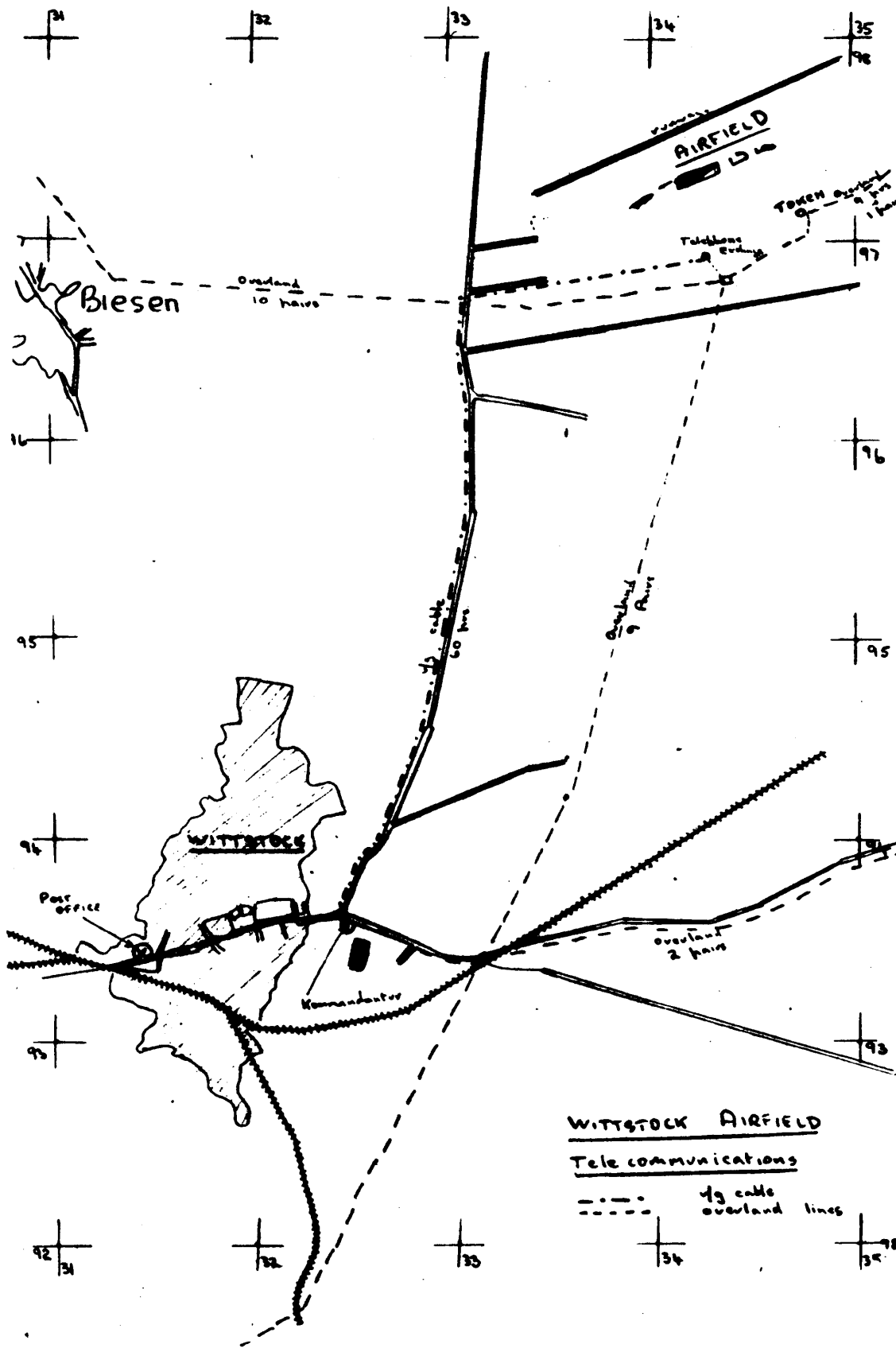




Overlay Germany 1:25,000

APPENDIX F

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Appendix 'G'

